

**Substitute for form 1449/PTO**

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

<i>Complete if Known</i>	
Application Number	09/694,766
Filing Date	October 23, 2000
First Named Inventor	Grindahl et al.
Art Unit	2664
Examiner Name	HY Vu
Attorney Docket Number	2537.01US02

## NON-PATENT LITERATURE DOCUMENTS

**EXAMINER  
SIGNATURE**

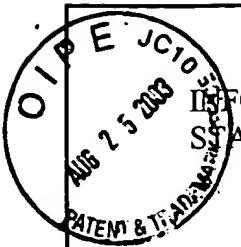
**DATE  
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11/28/04

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*(Use as many sheets as necessary)*

Sheet 1 of 2

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Art Unit	2664
Examiner Name	H.Y. Vu
Attorney Docket Number	2537.01US02

## U.S. PATENT DOCUMENTS

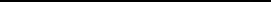
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			
JR	✓	GB 2139709	05-27-1998	Deutsche et al.	
JR	✓	WO 98/26520	06-18-1998	Wickman et al.	

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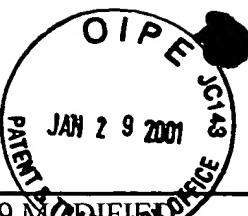
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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is needed.

language Translation is attached.  
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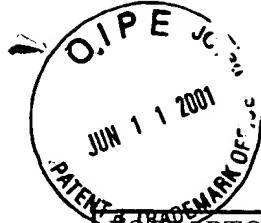
FORM P-1020A MODIFIED			Docket No.: 2537.01US02	Application No.: 09/694,766		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION			APPLICANT: Grindahl et al. FILING DATE: October 23, 2000 GROUP ART UNIT: 2664			
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JN</i>	4,800,559	Jan. 1989	Florea et al.			
<i>JN</i>	5,282,222	Jan. 1994	Fattouche et al.			
<i>JN</i>	5,436,902	Jul. 1995	McNamara et al.			
<i>JN</i>	5,889,759	Mar. 1999	McGibney			
<i>JN</i>	5,889,816	Mar. 1999	Agrawal et al.			
<i>JN</i>	5,894,478	Apr. 1999	Barzegar et al.			
<i>JN</i>	5,914,933	Jun. 1999	Cimini et al.			
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<i>JN</i>	5,973,642	Oct. 1999	Li et al.			
<i>JN</i>	6,046,701	Apr. 2000	Carey et al.			
<i>JN</i>	6,084,867	Jul. 2000	Meier			
FOREIGN PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>JN</i>	WO 98/35463	Aug. 1998	PCT			
<i>JN</i>	WO 99/45672	Sep. 1999	PCT			
<i>JN</i>	WO 99/62230	Dec. 1999	PCT			
<i>JN</i>	WO 96/20462	Jul. 1996	PCT			
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)						
<i>JN</i>	<i>On Synchronization in OFDM Systems Using the Cyclic Prefix</i> , Jan-Jaap van de Beek, Magnus Sandell, Per Ola Börjesson, Div. of Signal Processing, Luleå University of Technology, Sweden, pp. 1-5, not dated.					
<i>JN</i>	<i>Robust Channel Estimation for OFDM Systems with Rapid Dispersive Fading Channels</i> , Ye Geoffrey Li, Leonard J. Cimini, Jr., Nelson R. Sollenberger, IEEE Transactions on Communications, pp. 902-915, 1998.					
<i>JN</i>	<i>Time and Frequency Offset in OFDM Systems Employing Pulse Shaping</i> , Daniel Landström, Julia Martinez Arenas, Jan-Jaap van de Beek, Per Ola Börjesson, Marie-Laure Boucheret, Per Ödling, Proceedings of IEEE International Conference on Universal Personal Communication, San Diego, California, pp. 279-283, October 1997.					
<i>JN</i>	<i>Low-Complex Frame Synchronization in OFDM Systems</i> , Jan-Jaap van de Beek, Magnus Sandell, Mikael Isaksson, Per Ola Börjesson, Div. of Signal Processing, Luleå University of Technology, Sweden, 5 pgs., not dated.					
EXAMINER SIGNATURE			DATE CONSIDERED <i>1/29/04</i>			
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FORM PTO-1449 MODIFIED INFORMATION DISCLOSURE CITATION IN AN APPLICATION		Docket No.: 2537.01US02	Application No.: 09/694,766
		APPLICANT: Grindahl et al.	
		FILING DATE: October 23, 2000	
		GROUP ART UNIT: 2664	
OTHER DOCUMENTS			
Examiner Initials	(Author, Title, Date, Pertinent Pages, etc.)		
<i>JM</i>	<i>Optimum Receiver Design for Wireless Broad-Band Systems Using OFDM - Part 1</i> , Michael Speth, Stefan A. Fechtel, Gunnar Fock, Heinrich Meyr, IEEE Transactions on Communications, Vol. 47, No. 11, pp. 1668-1677, November 1999.		
<i>JM</i>	<i>The AT&amp;T Labs Broadband Fixed Wireless Field Experiment</i> , Byoung-Jo Kim, N.K. Shankaranarayanan, Paul S. Henry, Kevin Schlosser, Thomas K. Fong, IEEE Communications Magazine, pp. 56-62, October 1999.		
<i>JM</i>	<i>Attenuation and Interference Measurements Conducted by Bell Atlantic to Investigate the Effect on an Operational Multichannel Multipoint Distribution Service (MMDS)</i> , Tu Nguyen, Terry Remy, Kamran Sistanizadeh, Bell Atlantic Network Systems Engineering, Arlington, Virginia, IEEE Transactiona on Communications, pp. 88-91, 1996.		
<i>JM</i>	<i>Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come</i> , John A. C. Bingham, IEEE Communications Magazine, pp. 5-14, May 1990.		
<i>JM</i>	<i>A Model for the Multipath Delay Profile of Fixed Wireless Channels</i> , Vinko Erceg, David G. Michelson, Saeed S. Ghassenmzadeh, Larry J. Greenstein, A.J. Rustako, Jr., Peter B. Guerlain, Marc K. Dennison, R.S. Roman, Donald J. Barnickel, Spencer C. Wang, Robert R. Miller, IEEE Journal on Selected Areas in Communications, Vol. 17, No. 3, pp. 399-409, March 1999.		
<i>JM</i>	<i>Orthogonal Frequency Division Multiplexing for Wireless Channels</i> , Leonard J. Cimini, Jr., Ye Geoffrey Li, AT&T Labs - Research paper, 84 pgs., not dated.		
<i>JM</i>	<i>Digital Communication Receivers; Synchronization, Channel Estimation, and Signal Processing</i> , Heinrich Meyr, Marc Moeneclaey, Stefan A. Fechtel, Wiley Series in Telecommunications and Signal Processing, J. G. Proakis, Series Editor, pp. 211-270, not dated.		
<i>JM</i>	<i>Handbook of Digital Signal Processing: Engineering Applications</i> , Douglas F. Elliott, Editor, Academic Press, pp. 1-170, not dated.		
<i>JM</i>	<i>Digital Communications</i> , Second Edition, John G. Proakis, Editor, McGraw-Hill, Chapters 4 & 5, not dated.		
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